Assignment Feedback

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# General notes

The first thing I want to let you, at Typhoon HIL, know is that I am grateful for the opportunity you have given me of demonstrating my potential.

When I started this assignment, I did not know exactly how I was going to approach it, since many terms in the document you sent me were new to me, like Agile project management, Test-driven development, and automated tests.

However, I am glad that I learned these concepts because they all indispensable good practices in Engineer and software development.

With that being said, I took some notes and wrote some feedback on the main topics of the development of this assignment, which are:

## On the design approach

* The use of Scrum: The framework Scrum was a new concept to me and it was difficult at first to get used to it, mainly because I had to learn it first so that I could use its rules to base the development of this assignment.
* Once I learned the principles of Scrum and Agile project management, I started to see how productivity can be improved using this framework.

## On Test-driven development

* Another new concept for me, TDD has helped a lot in the development of this assignment. By developing automated tests, we can constantly certify that our product is working and the functionalities that were already implemented continue to work even after new functionalities are implemented.

## On the new TyphoonTest IDE

* I found this new tool very impressive, with the facility of writing python 3 code to implement automated tests in order to verify if our application is attending the correct requisites.
* We found one small bug in this tool that is the fact that the report files from a previous test are not deleted when a new test is run. In addition, it seems that it does not matter whether the ‘Target’ is set as ‘Current file’ or ‘Working directory’. Apparently, the tests are always run on the ‘Working directory’ path set on the application.

## On HIL SCADA

* HIL SCADA is an extremely useful tool when you want to operate your application manually and it has the functionalities to make a simple application of a SCADA system. However, I missed some small functionalities that would improve (in my opinion) the user experience when assembling a SCADA application, such as:
  + A functionality for alignment of the objects
  + Possibility of changing the widgets’ text colors
  + Possibility of changing the widgets’ background colors